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PATENT  
ATTORNEY DOCKET NO. 041514-5322

THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: )  
 )  
Kazunori OCHIAI )  
 )  
Application No.: 10/790,195 )  
 )  
Filed: 3/2/04 )  
 )  
Title: Image Processor With Frame-Rate )  
Conversion )

Commissioner for Patents  
Alexandria, VA 22314

Sir:

**SUBMISSION OF REVOCATION OF ORIGINAL POWER OF ATTORNEY  
AND GRANT OF NEW POWER OF ATTORNEY**

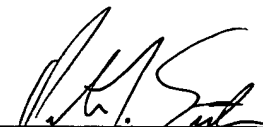
Enclosed is a copy of the Revocation of Original Power of Attorney and Grant of New Power of Attorney by the Assignee.

If there is any fee due in connection with the filing of this paper, please charge the fee to our Deposit Account No. 50-0573.

Respectfully submitted,

**DRINKER, BIDDLE & REATH LLP**

Dated: October 24, 2005

By:   
Peter J. Sistare  
Registration No. 48,183

**CUSTOMER NO. 55694**  
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**CHANGE OF CORRESPONDENCE ADDRESS**

Please enter the correspondence address of this application as:

**Customer Number 55694**

A new power of attorney appointing the undersigned is being filed concurrently herewith.  
If there is any fee due in connection with the filing of this paper, please charge the fee to our  
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Assignee: **PIONEER CORPORATION**

Commissioner for Patents  
Washington, D.C. 20231

**REVOCATION AND NEW POWER OF ATTORNEY**

Under 37 CFR §3.73(b), **PIONEER CORPORATION**, a Japanese corporation, certifies that it is an assignee of the patent applications and issued patents identified in the following chart by virtue of respective Assignment documents for each listed application and patent from the inventor(s) to **PIONEER CORPORATION** submitted to the U.S.

Patent and Trademark Office.

| Filing Date | Attorney Docket No. | Application No. | Patent No. | Issue Date | Recordation Info. Date; Reel/Frame |
|-------------|---------------------|-----------------|------------|------------|------------------------------------|
| 06/10/94    | 04478/041001        | 08/258,104      | 5,521,730  | 05/28/96   | 07/11/1994; 007077/0197            |
| 03/15/95    | 04478/046001        | 08/404,632      | 5,521,750  | 05/28/96   | 05/02/1995; 007550/0562            |
| 12/15/95    | 04478/052001        | 08/573,398      | 5,614,687  | 03/25/97   | 12/15/1995; 007807/0046            |
| 03/28/96    | 04478/058001        | 08/623,558      | 5,684,773  | 11/04/97   | 03/28/1996; 007946/0825            |
| 07/01/96    | 04478/061001        | 08/675,317      | 5,702,792  | 12/30/97   | 07/01/1996; 008074/0586            |
| 08/28/96    | 04478/063001        | 08/697,833      | 5,716,761  | 02/10/98   | 10/17/1996; 008211/0810            |
| 06/04/97    | 04478/071001        | 08/869,010      | 6,025,743  | 02/15/00   | 09/02/1997; 008695/0395            |
| 07/12/95    | 041514-5001         | 08/501,463      | 5,673,359  | 09/30/97   | 07/12/1995; 007608/0810            |
| 03/13/97    | 041514-5003-01      | 08/816,883      | 5,703,437  | 12/30/97   | Not available                      |
| 11/09/95    | 041514-5005         | 08/556,051      | 5,608,698  | 03/04/97   | 02/23/1996; 007826/0808            |
| 07/07/97    | 041514-5006-01      | 08/889,177      | 5,751,690  | 05/12/98   | 09/23/2003; 014515/0078            |
| 12/19/95    | 041514-5007         | 08/575,080      | 5,748,607  | 05/05/98   | 12/19/1995; 007819/0224            |
| 12/27/95    | 041514-5010         | 08/537,492      | 5,721,580  | 02/24/98   | 04/02/1996; 007872/0646            |
| 12/29/95    | 041514-5011         | 08/581,382      | 5,666,340  | 09/09/97   | 03/28/1996; 007868/0925            |
| 02/14/96    | 041514-5012         | 08/599,963      | 5,742,243  | 04/21/98   | 04/18/1996; 007898/0248            |

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| 03/27/96    | 041514-5015         | 08/624,894      | 5,722,184  | 03/03/98   | 05/22/1996; 007970/0496            |
| 03/22/96    | 041514-5016         | 08/620,612      | 5,745,460  | 04/28/98   | 04/23/1996; 007907/0616            |
| 06/04/96    | 041514-5017-03      | 08/658,106      | 6,304,286  | 11/14/00   | 08/01/1996; 008061/0338            |
| 08/28/96    | 041514-5018         | 08/705,854      | 5,742,567  | 04/21/98   | 09/23/03; 014515/0078              |
| 08/30/96    | 041514-5019         | 08/697,838      | 5,805,548  | 09/08/98   | 10/18/1996; 008181/0674            |
| 10/02/96    | 041514-5020         | 08/725,037      | 6,020,865  | 02/01/00   | 11/26/1996; 008241/0366            |
| 10/02/96    | 041514-5021         | 08/725,038      | 6,064,357  | 05/16/00   | 11/14/1996; 008201/0527            |
| 11/22/96    | 041514-5022-01      | 08/754,479      | 5,982,104  | 11/09/99   | 02/07/1997; 008340/0480            |
| 11/25/96    | 041514-5023-01      | 08/754,931      | 5,982,414  | 11/09/99   | 02/07/1997; 008340/0553            |
| 12/10/96    | 041514-5026         | 08/763,317      | 5,820,961  | 10/13/98   | 12/10/1996; 008299/0709            |
| 04/23/97    | 041514-5028         | 08/839,184      | 6,148,037  | 12/14/00   | 09/30/1997; 008757/0806            |
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| 08/01/97    | 041514-5030         | 08/905,080      | 6,167,008  | 12/26/00   | 08/01/1997; 009288/0481            |
| 09/19/97    | 041514-5031-01      | 08/951,212      | 6,219,324  | 04/17/01   | 03/25/1998; 009072/0585            |
| 09/02/97    | 041514-5033         | 08/921,468      | 5,886,506  | 03/23/99   | 04/20/1998; 009290/0561            |
| 09/05/97    | 041514-5034         | 08/923,950      | 5,963,184  | 10/05/99   | 02/03/1998; 008986/0034            |
| 10/28/97    | 041514-5035         | 08/959,616      | 6,118,644  | 09/12/00   | 10/28/1997; 008870/0781            |
| 02/11/98    | 041514-5036         | 09/021,938      | 6,084,841  | 07/04/00   | 02/11/1998; 008984/0660            |
| 01/22/98    | 041514-5037         | 09/010,537      | 5,946,277  | 08/31/99   | 06/15/1998; 009308/0209            |
| 05/14/98    | 041514-5038         | 09/078,133      | 6,144,155  | 11/07/00   | 08/04/1998; 009381/0098            |
| 05/14/98    | 041514-5039         | 09/078,138      | 6,147,443  | 11/14/00   | 08/04/1998; 009381/0104            |
| 05/22/98    | 041514-5040         | 09/083,443      | 6,014,060  | 01/11/00   | 05/22/1998; 009190/0569            |
| 07/16/98    | 041514-5041         | 09/116,442      | 6,195,072  | 02/27/01   | 10/06/1998; 009506/0483            |
| 07/07/98    | 041514-5042         | 09/110,383      | 6,211,865  | 04/03/01   | 09/28/1998; 009532/0905            |
| 06/30/98    | 041514-5043         | 09/107,996      | 6,297,788  | 10/02/01   | 09/16/1998; 009464/0865            |
| 07/21/98    | 041514-5044         | 09/119,658      | 6,262,699  | 07/17/01   | 10/16/1998; 009528/0151            |

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| 04/04/01    | 041514-5046-01      | 09/131,339      | 6,316,873  | 11/13/01   | 11/16/1998; 009589/0769            |
| 08/07/98    | 041514-5047         | 09/131,224      | 6,400,070  | 06/04/02   | 10/27/1998; 009560/0229            |
| 08/07/98    | 041514-5048         | 09/131,225      | 6,278,230  | 08/21/01   | 10/29/1998; 011517/0379            |
| 08/07/98    | 041514-5049         | 09/131,222      | 6,066,922  | 05/23/00   | 11/16/1998; 010386/0576            |
| 06/26/98    | 041514-5050         | 09/105,269      | 6,151,280  | 11/21/00   | 10/23/1998; 009551/0860            |
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| 10/06/98    | 041514-5052         | 09/166,529      | 6,134,211  | 10/17/00   | 12/17/1998; 009653/0875            |
| 12/23/98    | 041514-5053         | 09/219,779      | 6,259,198  | 07/10/01   | 03/03/1999; 009813/0238            |
| 1/8/99      | 041514-5054         | 09/227,532      | 6,522,608  | 02/18/03   | 01/08/99; 009700/0865              |
| 8/29/02     | 041514-5054-01      | 10/230,078      | 6,724,704  | 04/20/04   | 01/08/99; 009700/0865              |
| 8/29/02     | 041514-5054-02      | 10/230,354      | 6,757,228  | 06/29/04   | 01/08/99; 009700/0865              |
| 1/6/99      | 041514-5055         | 09/225,829      | 6,381,399  | 04/30/02   | 01/06/99; 009697/0653              |
| 3/16/99     | 041514-5056         | 09/270,657      | 6,674,695  | 01/06/04   | 06/01/99; 009995/0604              |
| 8/29/02     | 041514-5054-03      | 10/230,097      | 6,661,754  | 12/09/03   | 01/08/99; 009700/0865              |
| 03/18/99    | 041514-5057         | 09/270,827      | 6,292,503  | 09/18/01   | 06/04/1999; 009997/0537            |
| 7/20/01     | 041514-5057-01      | 09/908,560      | 6,573,116  | 06/03/03   | 06/04/99; 009997/0537              |
| 3/19/99     | 041514-5058         | 09/271,989      | 6,445,873  | 09/03/02   | 06/07/99; 010013/0616              |
| 7/31/02     | 041514-5058-01      | 10/207,845      |            |            | 06/07/99; 010013/0616              |
| 04/27/99    | 041514-5059         | 09/300,411      | 6,262,956  | 07/17/01   | 08/19/1999; 010176/0052            |
| 04/27/99    | 041514-5060         | 09/300,412      | 6,473,376  | 10/29/02   | 07/19/1999; 010105/0082            |
| 06/21/99    | 041514-5061-01      | 09/337,345      | 6,404,729  | 06/11/02   | 06/21/1999; 010057/0764            |
| 06/18/99    | 041514-5062         | 09/335,678      | 6,271,891  | 08/07/01   | 10/06/1999; 010289/0572            |
| 7/19/99     | 041514-5063         | 09/356,676      | 6,580,676  | 06/17/03   | 07/19/99; 010117/0609              |
| 07/08/99    | 041514-5064         | 09/349,918      | 6,122,248  | 09/19/00   | 07/08/1999; 010093/0083            |
| 07/28/99    | 041514-5065-01      | 09/362,198      | 6,404,124  | 06/11/02   | 07/28/1999; 010136/0399            |

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| 10/25/99    | 041514-5067         | 09/425,939      | 6,535,670  | 03/18/03   | 01/03/00; 010508/0906              |
| 10/25/99    | 041514-5068-01      | 09/425,940      | 6,605,227  | 08/12/03   | 01/19/00; 010493/0984              |
| 10/22/99    | 041514-5069         | 09/425,178      | 6,339,581  | 01/15/02   | 01/03/2000; 010507/0738            |
| 10/27/99    | 041514-5070         | 09/427,677      | 6,504,632  | 01/07/03   | 01/12/00; 010495/0134              |
| 3/2/00      | 041514-5071         | 09/517,721      | 6,552,703  | 04/22/03   | 05/15/00; 010790/0218              |
| 3/2/00      | 041514-5072         | 09/517,732      | 6,836,067  | 12/28/04   | 05/12/00; 010796/0386              |
| 03/17/00    | 041514-5073         | 09/531,126      | 6,312,547  | 11/06/01   | 08/01/2000; 010965/0653            |
| 4/10/00     | 041514-5074         | 09/546,282      | 6,552,984  | 04/22/03   | 08/07/00; 011010/0640              |
| 4/12/00     | 041514-5075         | 09/548,264      | 6,680,886  | 01/20/04   | 08/14/00; 011078/0883              |
| 4/12/00     | 041514-5076         | 09/548,263      | 6,690,632  | 02/10/04   | 08/17/00; 011008/0704              |
| 05/05/00    | 041514-5078         | 09/565,025      | 6,335,218  | 01/01/02   | 09/21/2000; 011098/0820            |
| 5/23/00     | 041514-5079         | 09/576,901      | 6,587,409  | 07/01/03   | 09/14/00; 011082/0062              |
| 05/25/00    | 041514-5080         | 09/577,626      | 6,295,256  | 09/25/01   | 10/27/2000; 011261/0829            |
| 6/1/00      | 041514-5081         | 09/584,783      |            |            | 09/22/00; 011104/0969              |
| 5/31/00     | 041514-5082         | 09/583,757      | 6,518,943  | 02/11/03   | 09/15/00; 011067/0989              |
| 6/20/00     | 041514-5083         | 09/597,094      | 6,496,165  | 12/17/02   | 10/27/00; 011258/0632              |
| 6/21/00     | 041514-5084         | 09/598,291      | 6,535,477  | 03/18/03   | 10/10/00; 011154/0089              |
| 1/21/03     | 041514-5084-01      | 10/347,225      | 6,785,220  | 08/31/04   | 10/10/00; 011154/0089              |
| 8/2/04      | 041514-5084-02      | 10/902,797      |            |            | 10/10/00; 011154/0089              |
| 06/27/00    | 041514-5085         | 09/604,170      | 6,456,006  | 09/24/02   | 12/04/2000; 011330/0385            |
| 7/7/00      | 041514-5086         | 09/610,690      | 6,545,972  | 04/08/03   | 10/27/00; 011258/0584              |
| 7/13/00     | 041514-5087         | 09/615,592      | 6,756,951  | 06/29/04   | 10/17/00; 011243/0336              |
| 9/7/00      | 041514-5088         | 09/657,163      | 6,594,631  | 07/15/03   | 12/22/00; 011386/0221              |
| 9/14/00     | 041514-5089         | 09/662,347      | 6,479,940  | 11/12/02   | 12/11/00; 011353/0010              |
| 09/19/00    | 041514-5090         | 09/665,075      | 6,449,095  | 09/10/02   | 12/11/2000; 011350/0599            |
| 10/11/00    | 041514-5091         | 09/685,600      | 6,741,543  | 05/25/04   | 02/02/01; 011488/0293              |

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| 10/05/00    | 041514-5093         | 09/679,814      | 6,380,689  | 04/30/02   | 12/22/2000; 011386/0414            |
| 10/27/00    | 041514-5094         | 09/697,737      | 6,667,727  | 12/23/03   | 02/05/01; 011492/0220              |
| 10/20/00    | 041514-5095         | 09/692,415      |            |            | 02/05/01; 011492/0271              |
| 10/25/00    | 041514-5096         | 09/695,424      | 6,381,202  | 04/30/02   | 02/15/2001; 011526/0602            |
| 11/9/00     | 041514-5097         | 09/708,855      | 6,731,276  | 05/04/04   | 03/26/01; 011639/0932              |
| 11/13/00    | 041514-5098         | 09/709,625      |            |            | 05/01/01; 011764/0608              |
| 12/18/00    | 041514-5100         | 09/738,950      | 6,714,495  | 03/30/04   | 03/30/01; 011654/0762              |
| 12/18/00    | 041514-5101         | 09/738,949      | 6,804,185  | 10/12/04   | 04/19/01; 011711/0915              |
| 12/20/00    | 041514-5102         | 09/739,646      | 6,628,599  | 09/30/03   | 03/14/01; 011588/0461              |
| 7/23/03     | 041514-5102-01      | 10/624,929      |            |            | 03/14/01; 011588/0461              |
| 3/27/01     | 041514-5103         | 09/817,246      |            |            | 04/10/01; 011680/0027              |
| 1/5/01      | 041514-5104         | 09/754,253      | 6,744,063  | 06/01/04   | 11/25/02; 013529/0814              |
| 1/22/01     | 041514-5105         | 09/765,306      | 6,885,616  | 04/26/05   | 04/23/01; 011702/0779              |
| 1/29/01     | 041514-5106         | 09/770,673      |            |            | 07/23/01; 012006/0292              |
| 2/8/01      | 041514-5107         | 09/778,846      | 6,504,813  | 01/07/03   | 04/30/01; 011764/0662              |
| 2/8/01      | 041514-5108         | 09/778,847      | 6,625,105  | 09/23/03   | 05/07/01; 011778/0423              |
| 2/14/01     | 041514-5109         | 09/782,525      | 6,429,981  | 08/06/02   | 05/16/01; 011809/0399              |
| 2/27/01     | 041514-5110         | 09/793,729      | 6,646,962  | 11/11/03   | 05/07/01; 011778/0420              |
| 3/9/01      | 041514-5111         | 09/801,877      | 6,501,708  | 12/31/02   | 08/03/01; 012064/0694              |
| 3/9/01      | 041514-5112         | 09/801,873      | 6,628,587  | 09/30/03   | 08/03/01; 012058/0696              |
| 3/16/01     | 041514-5113         | 09/809,352      | 6,485,418  | 11/26/02   | 06/25/01; 011931/0985              |
| 03/22/01    | 041514-5114         | 09/813,898      |            |            | 07/03/2001; 011957/0951            |
| 3/23/01     | 041514-5115         | 09/815,338      |            |            | 07/09/01; 011961/0931              |
| 3/28/01     | 041514-5116         | 09/817,895      |            |            | 07/06/01; 011957/0545              |
| 4/8/05      | 041514-5116-01      | 11/101,558      |            |            | 07/06/01; 011957/0545              |
| 4/8/05      | 041514-5116-02      | 11/101,560      |            |            | 07/06/01; 011957/0545              |

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| 4/8/05      | 041514-5116-03      | 11/101,596      |            |            | 07/06/01; 011957/0545              |
| 4/8/05      | 041514-5116-04      | 11/101,407      |            |            | 07/06/01; 011957/0545              |
| 4/8/05      | 041514-5116-05      | 11/101,595      |            |            | 07/06/01; 011957/0545              |
| 4/16/01     | 041514-5117         | 09/835,097      |            |            | 09/10/01; 012143/0154              |
| 4/18/01     | 041514-5118         | 09/836,456      | 6,560,173  | 05/06/03   | 08/06/01; 012057/0904              |
| 4/18/01     | 041514-5119         | 09/836,533      | 6,788,633  | 09/07/04   | 07/10/01; 011969/0624              |
| 5/16/01     | 041514-5120         | 09/855,753      | 6,873,586  | 03/29/05   | 09/10/01; 012157/0106              |
| 6/4/01      | 041514-5121         | 09/871,702      | 6,807,276  | 10/19/04   | 10/02/01; 012227/0656              |
| 6/21/01     | 041514-5122         | 09/885,286      |            |            | 10/04/01; 012224/0831              |
| 6/19/01     | 041514-5124         | 09/883,494      | 6,876,871  | 04/05/05   | 10/04/01; 012231/0113              |
| 6/21/01     | 041514-5126         | 09/885,526      | 6,690,500  | 02/10/04   | 10/09/01; 012249/0880              |
| 6/28/01     | 041514-5127         | 09/892,787      |            |            | 10/10/01; 012245/0625              |
| 6/28/01     | 041514-5128         | 09/892,791      |            |            | 10/10/01; 012245/0691              |
| 6/27/01     | 041514-5129         | 09/893,731      | 6,679,430  | 01/20/04   | 10/22/01; 012271/0692              |
| 11/3/03     | 041514-5129-01      | 10/698,422      |            |            | 10/22/01; 012271/0692              |
| 6/27/01     | 041514-5130         | 09/891,471      |            |            | 10/10/01; 012245/0681              |
| 7/3/01      | 041514-5131         | 09/897,413      | 6,542,454  | 04/01/03   | 10/19/01; 012271/0251              |
| 7/5/01      | 041514-5132         | 09/898,488      | 6,618,350  | 09/09/03   | 10/12/01; 012245/0919              |
| 6/2/03      | 041514-5132-01      | 10/449,026      | 6,837,072  | 01/04/05   | 10/12/01; 012245/0919              |
| 4/5/01      | 041514-5133         | 09/898,489      |            |            | 10/19/01; 012267/0113              |
| 8/3/01      | 041514-5134         | 09/921,308      | 6,865,144  | 03/08/05   | 11/05/01; 012298/0616              |
| 8/8/01      | 041514-5135         | 09/923,804      | 6,687,214  | 02/03/04   | 11/06/01; 012298/0782              |
| 08/10/01    | 041514-5136         | 09/925,960      |            |            | 11/06/2001; 012298/0631            |
| 8/24/01     | 041514-5138         | 09/935,640      | 6,650,026  | 11/18/03   | 11/06/01; 012298/0587              |
| 8/21/01     | 041514-5139         | 09/933,118      | 6,643,238  | 11/4/03    | 11/05/01; 012298/0657              |
| 8/29/01     | 041514-5140         | 09/940,675      | 6,529,339  | 03/04/03   | 11/30/01; 012334/0439              |
| 8/29/01     | 041514-5141         | 09/940,676      | 6,791,917  | 09/14/04   | 12/05/01; 012342/0868              |



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| 08/29/01    | 041514-5142         | 09/940,693      | 6,510,130  | 01/21/03   | 11/05/2001; 012298/0597            |
| 9/4/01      | 041514-5143         | 09/944,098      |            |            | 12/04/01; 012344/0154              |
| 9/10/01     | 041514-5144         | 09/948,785      | 6,656,560  | 12/2/03    | 12/07/01; 012357/0123              |
| 10/1/03     | 041514-5144-01      | 10/674,461      |            |            | 12/07/01; 012357/0123              |
| 10/9/01     | 041514-5145         | 09/972,040      | 6,650,970  | 11/18/03   | 12/19/01; 012387/0185              |
| 10/5/01     | 041514-5147         | 09/971,110      |            |            | 12/27/01; 012403/0192              |
| 10/10/01    | 041514-5148         | 09/973,071      | 6,590,990  | 07/08/03   | 01/11/02; 012472/0143              |
| 10/10/01    | 041514-5149         | 09/973,073      |            |            | 01/04/02; 012429/0513              |
| 10/22/01    | 041514-5151         | 09/982,982      |            |            | 01/14/02; 012470/0513              |
| 10/29/01    | 041514-5152         | 09/984,251      | 6,882,615  | 04/19/05   | 01/28/02; 012522/0440              |
| 2/15/05     | 041514-5152-01      | 11/057,597      |            |            | 01/28/02; 012522/0440              |
| 11/6/01     | 041514-5153         | 09/985,953      | 6,590,857  | 07/08/03   | 02/04/02; 012554/0339              |
| 2/8/00      | 041514-5154         | 09/497,694      | 6,329,667  | 12/11/01   | 05/09/00; 010775/0009              |
| 11/16/01    | 041514-5154-01      | 09/987,948      | 6,537,839  | 03/25/03   | 02/27/02; 012618/0826              |
| 11/20/01    | 041514-5155         | 09/988,813      | 6,667,947  |            | 02/04/02; 012554/0287              |
| 10/13/94    | 041514-5156         | 08/322,353      | 5,754,874  | 05/19/98   | 09/23/2003; 014515/0110            |
| 12/12/96    | 041514-5157         | 08/766,591      | 5,766,354  | 06/16/98   | 12/12/1996; 008356/0669            |
| 12/14/92    | 041514-5158         | 07/990,168      | 5,331,582  | 07/19/94   | 02/03/1993; 006440/0201            |
| 12/3/01     | 041514-5159         | 09/999,194      |            |            | 03/08/02; 012679/0584              |
| 12/3/01     | 041514-5160         | 09/999,195      | 6,594,091  | 7/15/03    | 02/08/02; 012576/0281              |
| 12/4/01     | 041514-5161         | 10/000,809      |            |            | 02/26/02; 012657/0359              |
| 12/10/01    | 041514-5162         | 10/006,987      |            |            | 02/28/02; 012637/0232              |
| 12/12/01    | 041514-5163         | 10/012,366      |            |            | 09/23/03; 014516/0190              |
| 12/13/01    | 041514-5164         | 10/013,955      |            |            | 03/11/02; 012689/0866              |
| 12/21/01    | 041514-5165         | 10/024,602      | 6,775,085  | 08/10/04   | 04/15/2002; 012800/0932            |
| 07/22/04    | 041514-5165-01      | 10/895,949      |            |            | 09/23/03; 014516/0190              |
| 12/20/01    | 041514-5166         | 10/022,843      |            |            | 03/19/02; 012710/0157              |

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| 6/29/00     | 041514-5167         | 09/606,170      | 6,348,754  | 02/19/02   | 09/05/00; 011047/0418              |
| 1/14/02     | 041514-5167-01      | 10/043,177      | 6,510,597  | 01/28/03   | 09/05/00; 011047/0418              |
| 12/10/99    | 041514-5168         | 09/458,028      | 6,353,582  | 03/05/02   | 03/06/2000; 010594/0683            |
| 09/13/99    | 041514-5169         | 09/394,503      | 6,392,966  | 05/21/02   | 11/05/1999; 010364/0992            |
| 8/16/02     | 041514-5170-01      | 09/414,034      | 6,504,808  | 01/07/03   | 04/03/00; 010940/0886              |
| 12/16/02    | 041514-5170-02      | 10/319,537      | 6,671,245  | 12/30/03   | 04/03/00; 010940/0886              |
| 3/1/00      | 041514-5171         | 09/516,731      | 6,748,001  | 06/08/04   | 05/19/00; 010803/0859              |
| 8/6/01      | 041514-5172         | 09/921,597      | 6,687,604  | 02/03/04   | 11/01/01; 012294/0042              |
| 3/4/99      | 041514-5173         | 09/262,352      | 6,658,054  | 12/02/03   | 05/11/99; 009952/0756              |
| 1/10/03     | 041514-5174-01      | 09/379,636      | 6,807,571  | 10/19/04   | 10/26/99; 010369/0506              |
| 7/23/97     | 041514-5176         | 08/899,334      | 5,859,818  | 01/12/99   | 07/23/97; 008653/0605              |
| 12/2/93     | 041514-5177-01      | 08/160,289      | 5,457,475  | 10/10/95   | Not Available                      |
| 03/23/00    | 041514-5178         | 09/533,763      | 6,301,028  | 10/09/01   | 07/20/2000; 010976/0343            |
| 4/25/00     | 041514-5179         | 09/557,616      | 6,552,751  | 4/22/03    | 08/29/00; 011038/0292              |
| 6/30/00     | 041514-5182         | 09/607,336      |            |            | 10/20/00; 011174/0715              |
| 11/28/00    | 041514-5183         | 09/723,281      | 6,842,194  | 01/11/05   | 05/02/01; 011760/0425              |
| 06/30/00    | 041514-5182-01      | 11/188,775      |            |            |                                    |
| 12/2/93     | 041514-5184         | 08/160,254      | 5,459,593  | 10/17/95   | 01/26/94; 6839/0956                |
| 1/2/00      | 041514-5185         | 09/704,063      | 6,480,456  | 11/12/02   | 02/12/01; 011512/0379              |
| 7/24/00     | 041514-5186         | 09/624,194      | 6,707,438  | 03/16/04   | 10/20/00; 011174/0707              |
| 12/5/03     | 041514-5186-01      | 10/727,630      |            |            | 10/20/00; 011174/0707              |
| 12/01/99    | 041514-5187         | 09/452,123      | 6,252,495  | 06/26/01   | 12/01/1999; 010431/0635            |
| 03/04/99    | 041514-5188         | 09/262,353      | 6,278,675  | 08/21/01   | 05/11/1999; 009941/0089            |
| 9/7/03      | 041514-5189         | 09/656,953      |            |            | 11/14/00; 011309/0921              |
| 01/24/01    | 041514-5191         | 09/768,004      | 6,493,158  | 12/10/02   | 05/14/2001; 011785/0247            |
| 3/30/96     | 041514-5192         | 08/040,276      | 5,512,919  | 04/30/96   | 03/30/93; 6517/555/556             |
| 3/24/03     | 041514-5193-        | 09/492,296      | 6,618,346  | 09/09/03   | 04/25/00; 010726/0933              |

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| 08/16/93    | 041514-5195         | 08/106,698      | 5,455,817  | 10/03/95   | 08/16/1993; 006669/0688            |
| 06/13/00    | 041514-5198         | 09/593,791      |            |            |                                    |
| 10/25/00    | 041514-5200         | 09/695,050      |            |            | 01/22/01; 011718/0656              |
| 9/17/01     | 041514-5202         | 09/953,453      | 6,594,221  | 07/15/03   | 02/13/02; 012595/0623              |
| 9/28/00     | 041514-5204         | 09/671,601      | 6,813,508  | 11/2/04    | 01/04/01; 011399/0773              |
| 3/8/01      | 041514-5205         | 09/801,055      | 6,906,686  | 06/14/05   | 05/23/01; 011827/0989              |
| 3/29/01     | 041514-5206         | 09/820,284      | 6,597,442  | 07/22/03   | 06/29/01; 011945/0718              |
| 3/8/01      | 041514-5208         | 09/801,053      | 6,771,231  | 08/03/04   | 05/23/01; 011827/0977              |
| 6/21/00     | 041514-5209         | 09/598,222      | 6,670,079  | 12/30/03   | 09/13/00; 011174/0835              |
| 10/4/01     | 041514-5210         | 09/969,735      | 6,806,852  | 10/19/04   | 01/08/02; 012457/0624              |
| 1/14/02     | 041514-5211         | 10/043,260      |            |            | 04/15/02; 012801/0057              |
| 1/14/02     | 041514-5212         | 10/043,287      |            |            | 04/10/02; 012780/0466              |
| 1/11/02     | 041514-5214         | 10/042,396      | 6,870,800  | 03/22/05   | 03/29/02; 012742/0381              |
| 1/14/02     | 041514-5215         | 10/043,259      | 6,891,783  | 05/10/05   | 04/03/02; 012770/0359              |
| 01/13/92    | 041514-5218         | 07/819,987      | 5,578,948  | 11/26/96   | 01/13/1992; 005987/0309            |
| 09/07/94    | 041514-5219-01      | 08/302,376      | 5,532,992  | 07/02/96   | Not Available                      |
| 3/26/93     | 041514-5221         | 08/037,101      | 5,374,489  | 12/20/94   | 05/21/93; 006544/0485              |
| 02/06/91    | 041514-5223         | 07/651,605      | 5,161,033  | 11/03/92   | 02/06/1991; 005599/0725            |
| 03/15/93    | 041514-5225         | 08/032,209      | 5,262,774  | 11/16/93   | Not Available                      |
| 06/24/92    | 041514-5228         | 07/903,165      | 5,250,928  | 10/05/93   | 09/23/03; 014515/0110              |
| 9/18/01     | 041514-5229         | 09/954,221      |            |            | 02/13/02; 012608/0104              |
| 8/27/01     | 041514-5230         | 09/938,828      |            |            | 01/28/02; 012522/0491              |
| 8/23/01     | 041514-5231         | 09/935,054      | 6,828,936  | 12/07/04   | 03/21/02; 012710/0141              |
| 3/23/00     | 041514-5232         | 09/651,739      | 6,414,762  | 07/02/02   | 12/06/00; 011921/0152              |
| 02/10/95    | 041514-5233         | 08/386,494      | 5,546,220  | 08/13/96   | 03/22/1995; 007404/0447            |
| 07/25/97    | 041514-5235         | 08/900,171      | 5,982,804  | 11/09/99   | 07/25/1997; 008687/0423            |
| 09/21/99    | 041514-5235-        | 09/399,768      | 6,291,256  | 09/18/01   | 07/25/1997; 008687/0423            |

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| 04/23/97    | 041514-5236         | 08/838,994      | 5,953,585  | 09/14/99   | 04/23/1997; 008538/0768            |
| 03/07/97    | 041514-5237         | 08/813,211      | 5,894,189  | 04/13/99   | 07/08/1997; 008617/0647            |
| 03/26/97    | 041514-5238         | 08/824,439      | 6,049,654  | 04/11/00   | 03/26/1997; 008475/0711            |
| 04/23/97    | 041514-5239         | 08/838,926      | 6,009,070  | 12/28/99   | 04/23/1997; 008528/0780            |
| 11/16/99    | 041514-5241         | 09/441,202      | 6,567,059  | 05/20/03   | 02/22/2000; 010562/0857            |
| 1/23/02     | 041514-5242         | 10/052,568      | 6,801,489  | 10/05/04   | 04/10/2002; 012798/0349            |
| 2/8/02      | 041514-5243         | 10/067,981      |            |            | 04/15/2002; 012800/0912            |
| 7/25/94     | 041514-5245-01      | 08/279,815      | 5,399,936  | 03/21/95   | Not Available                      |
| 07/15/96    | 041514-5250         | 08/680,041      | 5,736,815  | 04/07/98   | 07/15/1996; 008142/0337            |
| 02/13/96    | 041514-5251         | 08/600,659      | 5,650,988  | 07/22/97   | 05/13/1996; 008130/0331            |
| 01/23/96    | 041514-5253         | 08/590,304      | 5,799,046  | 08/25/98   | 03/15/1996; 007842/0913            |
| 2/28/02     | 041514-5254         | 10/084,668      | 6,836,458  | 12/28/04   | 05/22/2002; 012921/0676            |
| 3/6/02      | 041514-5255         | 10/091,345      | 6,720,056  | 04/13/04   | 06/05/2002; 012979/0325            |
| 3/18/02     | 041514-5256         | 10/098,619      |            |            | 06/24/2002; 013030/0963            |
| 3/25/02     | 041514-5257         | 10/104,064      |            |            | 06/21/2002; 013027/0039            |
| 4/2/02      | 041514-5260         | 10/112,766      |            |            | 04/02/2002; 012781/0257            |
| 5/13/02     | 041514-5261         | 10/142,958      |            |            | 05/13/2002; 012895/0102            |
| 5/17/02     | 041514-5262         | 10/147,050      |            |            | 08/05/2002; 013137/0439            |
| 5/22/02     | 041514-5263         | 10/152,073      |            |            | 05/22/2002; 012923/0068            |
| 05/28/02    | 041514-5264         | 10/154,926      | 6,922,180  | 07/26/05   | 05/28/2002; 012940/0316            |
| 6/11/02     | 041514-5266         | 10/165,953      |            |            | 06/11/2002; 012987/0801            |
| 12/18/92    | 041514-5267         | 07/992,648      | 5,822,775  | 10/13/98   | 02/18/1993; 006455/0861            |
| 06/02/93    | 041514-5268         | 08/071,014      | 5,355,175  | 10/11/94   | 07/06/1993; 006623/0318            |
| 10/24/96    | 041514-5269         | 08/736,609      | 5,825,248  | 10/20/98   | 01/08/1997; 008318/0841            |
| 12/17/96    | 041514-5270         | 08/766,362      | 5,827,593  | 10/27/98   | 12/17/1996; 008804/0778            |
| 05/24/96    | 041514-5271         | 08/653,160      | 5,828,181  | 10/27/98   | 07/03/1996; 008020/0274            |

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| 7/16/02     | 041514-5273         | 10/195,438      |            |            | 07/16/2002; 013114/0055            |
| 7/22/02     | 041514-5274         | 10/199,706      |            |            | 07/22/2002; 013131/0525            |
| 07/25/02    | 041514-5275         | 10/201,923      |            |            |                                    |
| 9/24/02     | 041514-5276         | 10/252,373      |            |            | 09/24/2002; 013322/0428            |
| 9/24/02     | 041514-5277         | 10/252,403      | 6,680,683  | 01/20/04   | 09/24/2002; 013327/0855            |
| 9/13/02     | 041514-5279         | 10/242,766      | 6,798,145  | 09/28/04   | 09/13/2002; 013294/0664            |
| 9/20/02     | 041514-5280         | 10/247,680      |            |            | 09/20/2002; 013317/0878            |
| 9/23/02     | 041514-5281         | 10/252,008      |            |            | 12/10/2002; 013571/0652            |
| 10/16/02    | 041514-5282         | 10/257,719      |            |            | 10/16/2002; 013407/0677            |
| 11/18/02    | 041514-5283         | 10/295,860      |            |            | 11/18/2002; 013515/0160            |
| 12/9/02     | 041514-5284         | 10/314,256      | 6,870,521  | 03/22/05   | 09/23/2003; 014516/0190            |
| 11/27/02    | 041514-5285         | 10/304,854      |            |            | 11/27/2002; 013538/0891            |
| 12/9/02     | 041514-5286         | 10/314,258      |            |            | 12/09/2002; 013561/0418            |
| 12/17/02    | 041514-5287         | 10/320,414      | 6,844,043  | 01/18/05   | 12/17/2002; 013594/0067            |
| 12/16/02    | 041514-5288         | 10/319,698      |            |            | 02/11/2004; 014994/0169            |
| 12/19/02    | 041514-5289         | 10/322,755      |            |            | 04/01/2003; 013909/0922            |
| 12/14/94    | 041514-5290         | 08/356,052      | 5,452,273  | 09/19/95   | Not Available                      |
| 1/29/03     | 041514-5291         | 10/352,996      |            |            | 01/29/2003; 013722/0565            |
| 10/15/92    | 041514-5292         | 07/961,506      | 5,429,884  | 07/04/95   | 10/15/1992; 006295/0360            |
| 3/12/03     | 041514-5293         | 10/385,690      |            |            | 03/21/2003; 013870/0744            |
| 4/8/03      | 041514-5294         | 10/408,652      |            |            | 07/14/2003; 014269/0943            |
| 4/25/03     | 041514-5295         | 10/422,761      |            |            | 04/25/2003; 014006/0954            |
| 5/13/03     | 041514-5296         | 10/436,368      | 6,841,218  | 01/11/05   | 07/14/2003; 014286/0506            |
| 5/19/03     | 041514-5297         | 10/440,376      |            |            | 05/19/2003; 014092/0554            |
| 5/21/03     | 041514-5298         | 10/442,110      |            |            | 05/21/2003; 014104/0578            |
| 6/6/03      | 041514-5299         | 10/455,477      |            |            | 06/06/2003; 014161/0313            |
| 6/6/03      | 041514-5300         | 10/455,726      |            |            | 06/06/2003; 014161/0904            |

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| 10/14/93    | 041514-5302         | 08/135,997      | 5,475,440  | 12/12/95   | 09/23/2003; 014515/0110            |
| 7/10/03     | 041514-5303         | 10/616,501      |            |            | 10/31/2003; 014650/0343            |
| 7/17/03     | 041514-5304         | 10/620,436      |            |            | 07/17/2003; 014310/0793            |
| 8/8/03      | 041514-5305         | 10/636,709      |            |            | 08/08/2003; 014378/0924            |
| 9/3/03      | 041514-5306         | 10/653,428      |            |            | 01/16/2004; 014906/0305            |
| 09/05/03    | 041514-5307         | 10/655,584      |            |            | 01/21/2004; 014925/0127            |
| 9/9/03      | 041514-5308         | 10/657,697      |            |            | 02/02/2004; 014954/0891            |
| 9/29/03     | 041514-5309         | 10/672,076      | 6,873,117  | 03/29/05   | 02/13/2004; 014985/0412            |
| 10/7/03     | 041514-5310         | 10/679,503      | 6,856,083  | 02/15/05   | 03/04/2004; 015049/0649            |
| 10/17/03    | 041514-5311         | 10/686,780      |            |            | 03/01/2004; 015038/0438            |
| 10/17/03    | 041514-5312         | 10/686,742      |            |            | 10/17/2003; 014618/0527            |
| 11/5/03     | 041514-5313         | 10/701,080      |            |            | 03/02/2004; 015032/0056            |
| 12/3/03     | 041514-5314         | 10/725,502      |            |            | 12/03/2003; 014767/0793            |
| 12/2/03     | 041514-5315         | 10/724,902      |            |            | 12/02/2003; 014767/0561            |
| 12/2/03     | 041514-5316         | 10/724,896      |            |            | 12/02/2003; 014767/0558            |
| 12/12/03    | 041514-5317         | 10/733,290      |            |            | 12/12/2003; 014813/0168            |
| 12/12/03    | 041514-5318         | 10/733,304      |            |            | 12/12/2003; 014817/0223            |
| 1/20/04     | 041514-5319         | 10/759,161      |            |            | 01/20/2004; 014904/0639            |
| 2/13/04     | 041514-5320         | 10/777,213      |            |            | 07/02/2004; 015528/0113            |
| 3/16/04     | 041514-5321         | 10/489,671      |            |            | 03/16/2004; 015671/0218            |
| 3/2/04      | 041514-5322         | 10/790,195      |            |            | 03/02/2004; 015052/0711            |
| 3/2/04      | 041514-5323         | 10/789,993      |            |            | 03/02/2004; 015034/0322            |
| 3/15/04     | 041514-5324         | 10/489,704      |            |            | 03/15/2004; 015738/0054            |
| 3/11/04     | 041514-5325         | 10/797,573      |            |            | 07/21/2004; 015591/0263            |
| 3/15/04     | 041514-5326         | 10/489,703      |            |            | 03/15/2004; 015671/0195            |
| 03/12/04    | 041514-5327         | 10/798,974      |            |            | 07/26/2004; 015609/0579            |
| 5/24/04     | 041514-5328         | 10/496,465      |            |            | 05/24/2004; 015710/0791            |

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| 04/29/04    | 41514-5330          | 10/834,234      |            |            |                                    |
| 6/10/04     | 041514-5331         | 10/864,770      |            |            | 10/01/2004; 015854/0685            |
| 6/16/04     | 041514-5333         | 10/868,034      |            |            | 06/16/2004; 015476/0902            |
| 6/16/04     | 041514-5334         | 10/868,185      |            |            | 10/08/2004; 015879/0991            |
| 6/29/04     | 041514-5335         | 10/878,675      |            |            | 10/13/2004; 015890/0807            |
| 6/29/04     | 041514-5336         | 10/878,517      |            |            | 06/29/2004; 015526/0717            |
| 7/9/04      | 041514-5337         | 10/886,714      |            |            | 07/09/2004; 015569/0798            |
| 7/19/04     | 041514-5338         | 10/893,232      |            |            | 07/19/2004; 015586/0407            |
| 08/06/04    | 041514-5339         | 10/503,668      |            |            | 08/06/2004; 016382/0530            |
| 7/19/04     | 041514-5340         | 10/893,219      |            |            | 07/19/2004; 015586/0393            |
| 9/21/04     | 041514-5341         | 10/945,092      |            |            | 09/21/2004; 015821/0022            |
| 03/31/05    | 041514-5342         | 10/509,428      |            |            |                                    |
| 05/13/05    | 041514-5343         | 10/508,857      |            |            |                                    |
| 03/17/05    | 041514-5344         | 10/509,079      |            |            |                                    |
| 10/13/04    | 041514-5345         | 10/962,514      |            |            | 10/13/2004; 015892/0479            |
| 9/30/04     | 041514-5346         | 10/953,287      |            |            | 09/30/2004; 015856/0339            |
| 08/28/97    | 041514-5347         | 08/919,355      | 6,225,987  | 05/01/01   | 01/15/1998; 009050/0712            |
| 9/28/04     | 041514-5348         | 10/950,559      |            |            | 09/28/2004; 015847/0691            |
| 9/28/04     | 041514-5349         | 10/950,556      |            |            | 09/28/2004; 015856/0314            |
| 09/28/04    | 041514-5350         | 10/950,684      |            |            | 01/12/2005; 016152/0642            |
| 10/13/04    | 041514-5351         | 10/962,531      |            |            | 10/13/2004; 015892/0308            |
| 10/06/04    | 041514-5352         | 10/958,639      |            |            | 01/14/2005; 016156/0251            |
| 10/08/04    | 041514-5353         | 10/960,283      |            |            | 01/24/2005; 016207/0214            |
| 12/21/01    | 041514-5354         | 10/028,237      | 6,882,327  | 04/19/05   | 12/21/2001; 012417/0686            |
| 2/13/02     | 041514-5355         | 10/365,971      | 6,847,339  | 01/25/05   | 12/17/2004; 015478/0218            |
| 04/25/02    | 041514-5356         | 10/131,048      |            |            | 04/25/2002; 012834/0676            |
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| 07/27/04    | 041514-5359         | 10/899,649      |            |            | Assignment filed 07/29/05          |
| 05/22/01    | 041514-5360         | 09/862,918      | 6,888,517  | 05/03/05   | 05/22/2001; 011845/0814            |
| 04/22/02    | 041514-5361         | 10/126,583      |            |            | 04/22/2002; 012821/0273            |
| 06/08/01    | 041514-5362         | 09/877,293      | 6,765,621  | 07/20/04   | 06/08/2001; 011896/0888            |
| 05/31/01    | 041514-5363         | 09/871,436      | 6,806,911  | 10/19/04   | 05/31/2001; 011878/0991            |
| 12/17/01    | 041514-5364         | 10/022,629      |            |            | 12/17/2001; 012404/0588            |
| 09/24/03    | 041514-5365         | 10/669,549      | 6,833,824  | 12/21/04   | 12/15/2004; 015460/0617            |
| 09/24/03    | 041514-5365         | 10/669,549      | 6,833,824  | 12/21/04   | Assignment filed 07/29/05          |
| 02/23/01    | 041514-5366         | 09/791,530      | 6,819,046  | 11/16/04   | Assignment filed 07/29/05          |
| 12/20/00    | 041514-5367         | 09/739,789      | 6,922,191  | 07/26/05   | 03/26/2001; 011637/0257            |
| 11/23/01    | 041514-5368         | 09/992,052      |            |            | Assignment filed 07/29/05          |
| 05/29/01    | 041514-5369         | 09/867,098      |            |            | Assignment filed 07/29/05          |
| 07/07/00    | 041514-5371         | 09/612,120      |            |            | Assignment filed 07/29/05          |
| 07/12/02    | 041514-5372         | 10/194,542      |            |            | 09/04/2002; 013260/0557            |
| 7/24/03     | 041514-5373         | 10/625,877      |            |            | 07/24/2003; 014330/0470            |
| 11/16/04    | 041514-5374         | 10/988,535      |            |            | 11/16/2004; 016009/0459            |
| 11/08/01    | 041514-5375         | 10/008,856      |            |            | Assignment filed 07/29/05          |
| 11/23/04    | 041514-5377         | 10/995,089      |            |            | 02/14/2005; 016262/0957            |
| 05/09/00    | 041514-5378         | 09/567,344      |            |            |                                    |
| 11/27/01    | 041514-5379         | 09/995,383      | 6,803,722  | 10/12/04   | Assignment filed 07/29/05          |
| 12/02/04    | 041514-5380         | 11/001,648      |            |            | 03/30/2005; 016407/0502            |
| 12/01/04    | 041514-5381         | 11/000,523      |            |            | 03/09/2005; 016348/0698            |
| 12/6/04     | 041514-5382         | 11/003,329      |            |            | 03/11/2005; 016354/0442            |
| 02/27/01    | 041514-5383         | 09/794,182      |            |            | Assignment filed 07/29/05          |
| 01/10/00    | 041514-5384         | 09/479,875      | 6,784,857  | 08/31/04   | Assignment filed 07/29/05          |
| 06/25/02    | 041514-5385         | 10/178,248      | 6,784,615  | 08/31/04   | Assignment filed 07/29/05          |
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| 01/14/05    | 041514-5388         | 11/034,851      |            |            | 01/14/2005; 016192/0351            |
| 04/16/04    | 041514-5387-01      | 10/826,188      |            |            | Assignment filed 07/29/05          |
| 01/14/05    | 041514-5388         | 11/034,851      |            |            | 01/14/2005; 016192/00351           |
| 12/18/03    | 041514-5389         | 10/738,090      |            |            | Assignment filed 07/29/05          |
| 12/10/03    | 041514-5390         | 10/730,932      | 6,930,285  | 08/16/05   | Assignment filed 07/29/05          |
| 03/29/04    | 041514-5391         | 10/810,618      |            |            | Assignment filed 07/29/05          |
| 09/29/04    | 041514-5392         | 10/951,765      |            |            | Assignment filed 07/29/05          |
| 11/17/03    | 041514-5393         | 10/713,005      |            |            | Assignment filed 07/29/05          |
| 07/11/03    | 041514-5395         | 10/617,233      |            |            | Assignment filed 07/29/05          |
| 01/14/05    | 041514-5396         | 10/521,442      |            |            |                                    |
| 01/12/05    | 041514-5397         | 11/033,958      |            |            |                                    |
| 2/1/05      | 041514-5398         | 11/046,799      |            |            |                                    |
| 02/28/05    | 041514-5399         | 11/067,603      |            |            | Assignment filed 07/29/05          |
| 03/07/05    | 041514-5400         | 11/072,648      |            |            |                                    |
| 3/7/05      | 041514-5401         | 11/072,647      |            |            | 02/01/2005; 016243/0936            |
| 03/23/05    | 041514-5402         | 11/086,670      |            |            |                                    |
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| 03/24/05    | 041514-5404         | 11/089,130      |            |            |                                    |
| 03/24/05    | 041514-5405         | 11/101,628      |            |            | Assignment filed 07/29/05          |
| 04/18/05    | 041514-5407         | 11/108,056      |            |            |                                    |
| 4/27/05     | 041514-5408         | 10/532,967      |            |            |                                    |
| 05/06/05    | 041514-5409         | 11/123,212      |            |            |                                    |
| 06/02/05    | 041514-5411         | 11/142,670      |            |            |                                    |
| 07/25/05    | 041514-5412         | 11/188,102      |            |            |                                    |
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The undersigned, whose title is supplied below, is empowered to act on behalf of assignee Pioneer Corporation.

Acting on behalf of assignee Pioneer Corporation, the undersigned hereby revokes all powers of attorney previously granted in these applications and patents and appoints:

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with full power of substitution and revocation, to prosecute the applications and to transact all business in the United States Patent and Trademark Office connected with these patent applications and issued patents.

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